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APPLICATION NO.	F	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/920,728		08/03/2001	Robert James Tribe	0100/0131	5066	
21395	7590	08/16/2004		EXAMINER		
LOUIS WOO				RODRIGUEZ, CRIS LOIREN		
LAW OFFI	CE OF LC	OUIS WOO				
717 NORTI	H FAYET	TE STREET		ART UNIT	PAPER NUMBER	
ALEXAND	RIA, VA	22314		3763	3763	
				DATE MAIL ED. 09/14/200		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	09/920,728	TRIBE ET AL.	$\mathcal{O}_{\mathcal{L}}$
Office Action Summary	Examiner	Art Unit	
	Cris L. Rodriguez	3763	
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet wit	h the correspondence addr	'ess
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	I. 1.136(a). In no event, however, may a re ply within the statutory minimum of thirty d will apply and will expire SIX (6) MONT ate, cause the application to become ABA	rply be timely filed (30) days will be considered timely. FHS from the mailing date of this common the mailing date of the common the com	munication.
Status			
1) Responsive to communication(s) filed on 27	April_2004.		
	nis action is non-final.	•	
3) Since this application is in condition for allow closed in accordance with the practice under	·	•	nerits is
Disposition of Claims		•	
4) ☐ Claim(s) 1,4,5 and 7-10 is/are pending in the 4a) Of the above claim(s) is/are withdrest is/are allowed. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1,4,5,7-10 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and	awn from consideration.		
Application Papers			·
9)☐ The specification is objected to by the Examin	ner.		
10)☐ The drawing(s) filed on is/are: a)☐ ac	ccepted or b) Objected to b	y the Examiner.	
Applicant may not request that any objection to th			
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the I			
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreig	an priority under 35 H.S.C. &	119(a) (d) or (f)	
a) All b) Some * c) None of: 1. Certified copies of the priority documents. 2. Certified copies of the priority documents. 3. Copies of the certified copies of the priority documents.	nts have been received. nts have been received in Ap ionty documents have been i	oplication No	tage
* See the attached detailed Office action for a lis	st of the certified copies not r	eceived.	
Attachment(s)			
Notice of References Cited (PTO-892)		ummary (PTO-413)	
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date)/Mail Date formal Patent Application (PTO-1 	52)

Page 2

Application/Control Number: 09/920,728

Art Unit: 3763

DETAILED ACTION

Response to Arguments

1. In view of the Appeal Brief filed on April 27, 2004, PROSECUTION IS HEREBY REOPENED. A new ground of rejection is set forth below.

To avoid abandonment of the application, appellant must exercise one of the following two options:

- (1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37 CFR 1.113 (if this Office action is final); or,
 - (2) request reinstatement of the appeal.

If reinstatement of the appeal is requested, such request must be accompanied by a supplemental appeal brief, but no new amendments, affidavits (37 CFR 1.130, 1.131 or 1.132) or other evidence are permitted. See 37 CFR 1.193(b)(2).

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1, 5, 7, 9, and 10 are rejected under 35 U.S.C. 102(e) as being anticipated by Moberg et al (US 6,362,591).

Art Unit: 3763

Moberg discloses a syringe pump having a drive mechanism 120, an occlusion detector including a force sensor 7' (see US 4,678.408 incorporated by reference in col. 4, lines27-30), and the method steps as claimed. Moberg's syringe pump is operable in response to a detected occlusion to reverse the drive applied to move the plunger along the barrel sufficiently until the force detected by the force sensor falls by a predetermined amount. Please note that the examiner's interpretation for force and pressure are about the same; according to the dictionary "pressure" means: a force that compels. See attachment.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 4 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Moberg et al.

Moberg discloses the invention substantially as claimed. Moberg discloses that upon occlusion detection by the sensor, the pump rewinds by some predetermined amount following an occlusion alarm (incremental drive system rewind). However, Moberg fails to specifically disclose the pump being arranged to reverse the drive until force detected by the force sensor is substantially 10% of the force at which an occlusion is detected, and the force applied to drive the plunger is changed to reduce the detected force to substantially 10% of the predetermined value. This predetermined

Application/Control Number: 09/920,728

Art Unit: 3763

value is deemed matter of design choice, well within the skill of the ordinary artisan, obtained through routine experimentation in determining optimum results.

Response to Arguments

6. Applicant's arguments filed April 27, 2004 have been fully considered but they are not persuasive.

In response to applicant's arguments that Moberg's pump also reverses the drive when the occlusion is detected but its not in response to the detection of an elevated force, the examiner disagrees. The examiner directs applicant attention to col. 5, lines 33-65, and col. 6, lines 7-17. The occlusion detector (force sensor) does not work by itself, and works in conjunction with the control unit or encoder and the motor like applicants. Moberg also discloses that the occlusion detector measures variation in reservoir pressure by monitoring several parameters (col. 5). Therefore, Moberg anticipates the claims. Also, because Moberg's sensor and applicant's have different names (high pressure sensor and force sensor) does not mean that one acts differently from the other. However, the internal structures are different from each other, but those differences are not being set forth in the claims. In other words, applicant has not distinguished its sensor structurally from Moberg.

Furthermore, the incorporation of the '408 patent into Moberg is to show the construction of the infusion pump (which includes the occlusion detector) and its operation. In response to arguments that Moberg, in col. 1, line 58 – col. 2, line 28, avoids force sensing, the examiner disagrees. That's a description of prior infusion pumps using switch systems, and not a description of its own invention.

Application/Control Number: 09/920,728

Art Unit: 3763

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cris L. Rodriguez whose telephone number is (703) 308-2194. The examiner can normally be reached on 7:30 am - 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Casler can be reached on (703) 308-3552. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

August 5, 2004

Cris L. Rodriguez

Examiner

Art Unit 3763